

**FIG. 1**

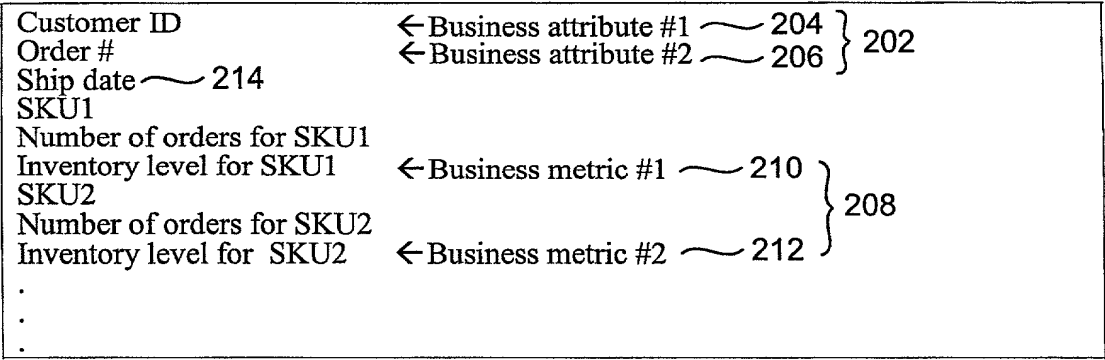


FIG. 2

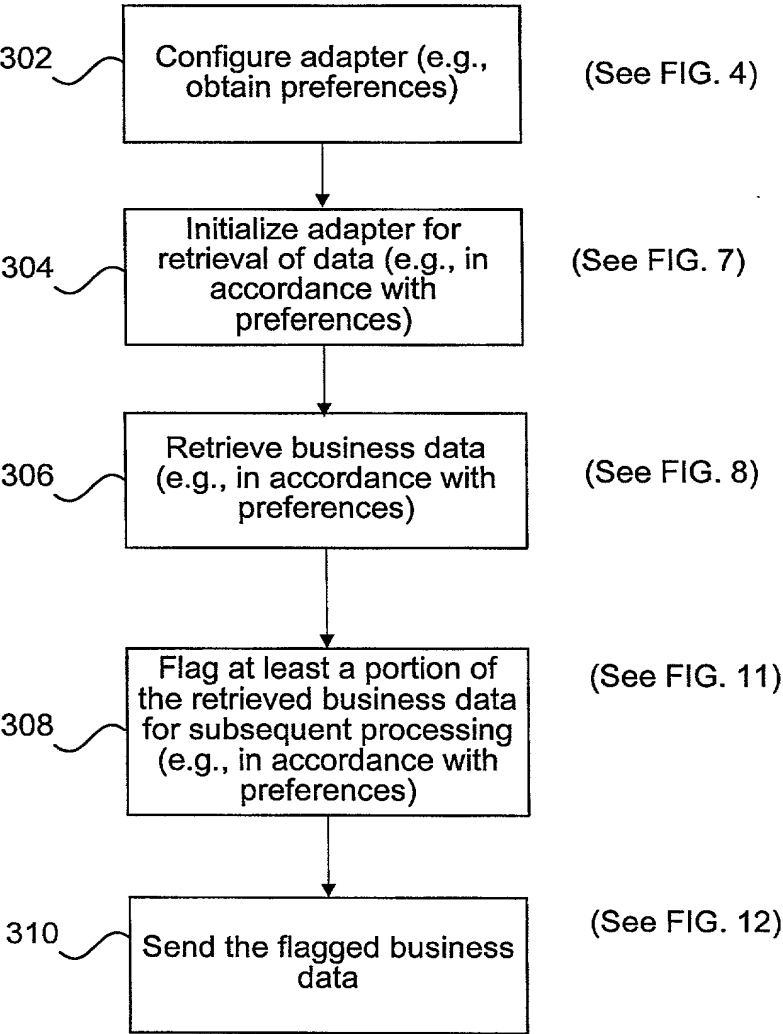
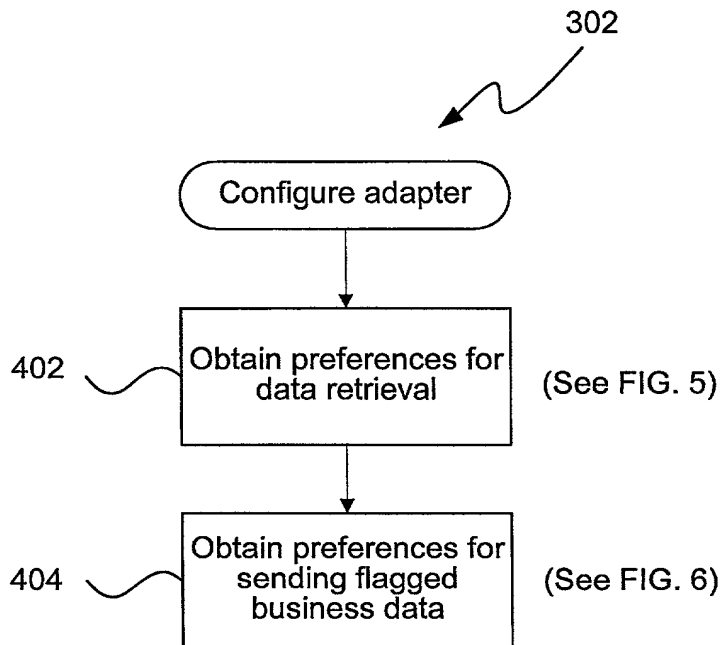
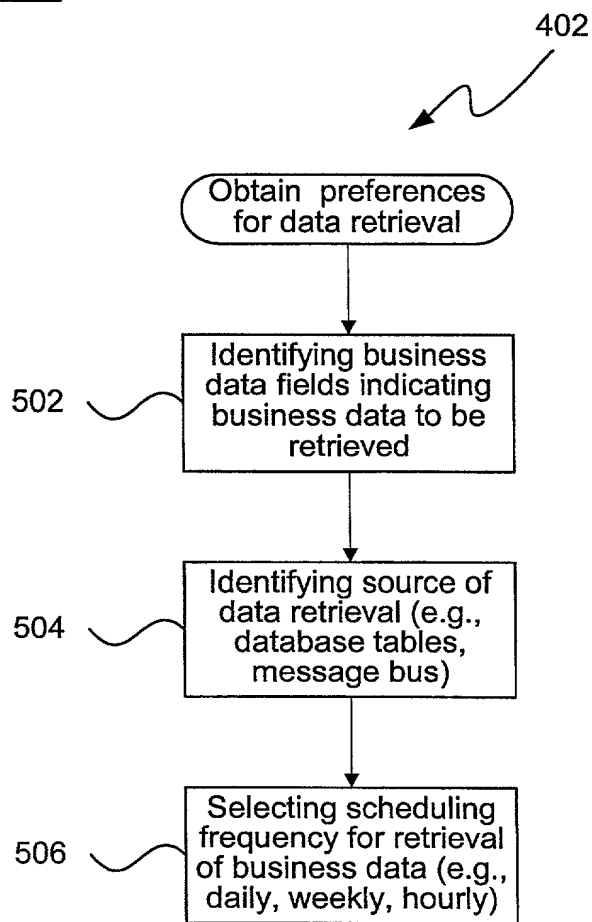


FIG. 3

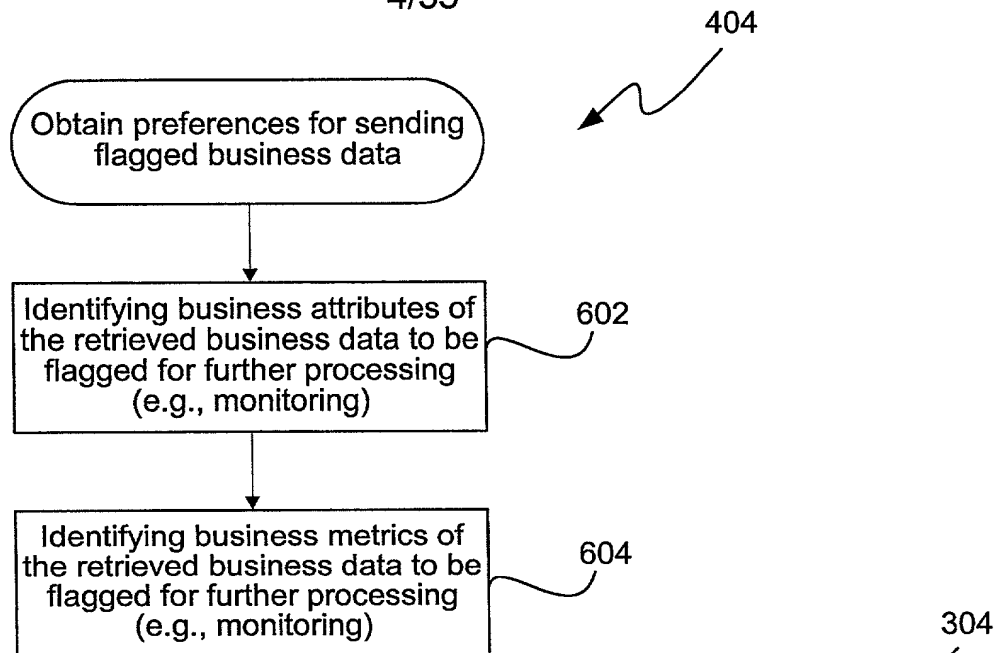
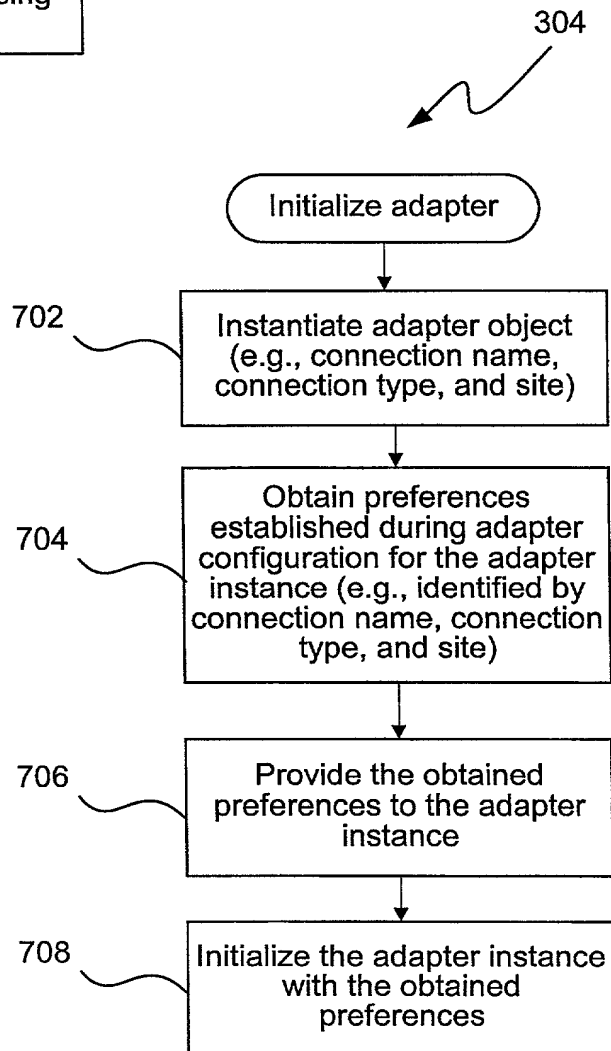
FIG. 3

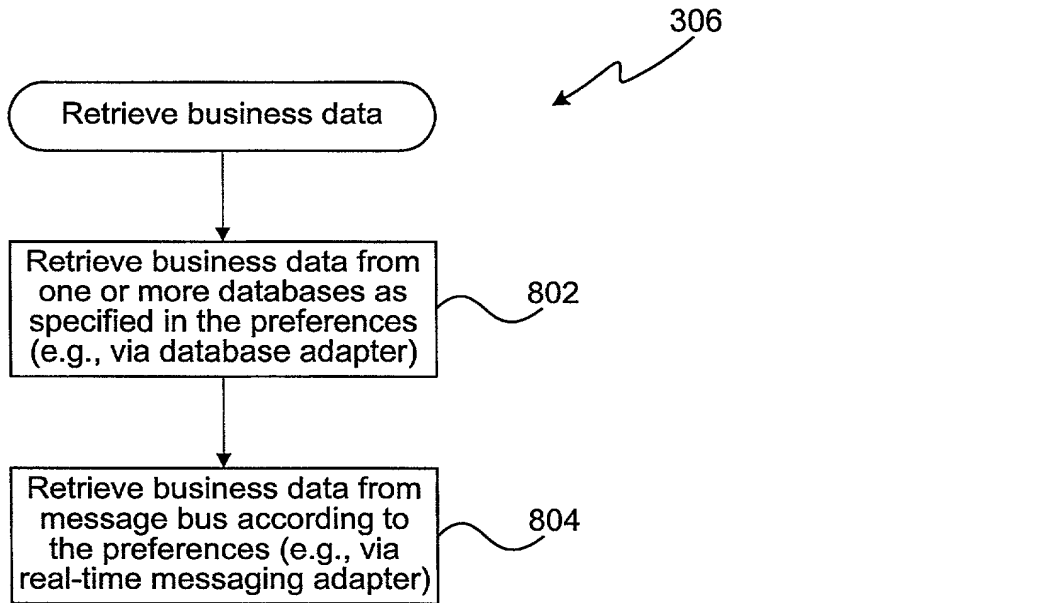
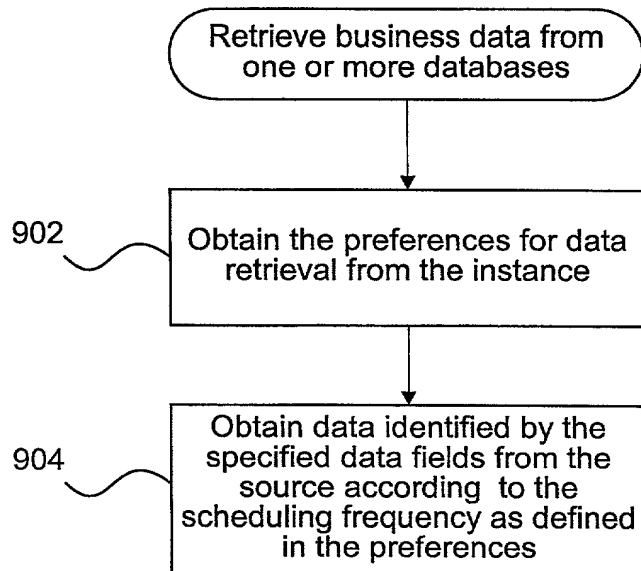


**FIG. 4**



**FIG. 5**

**FIG. 6****FIG. 7**

**FIG. 8****FIG. 9**

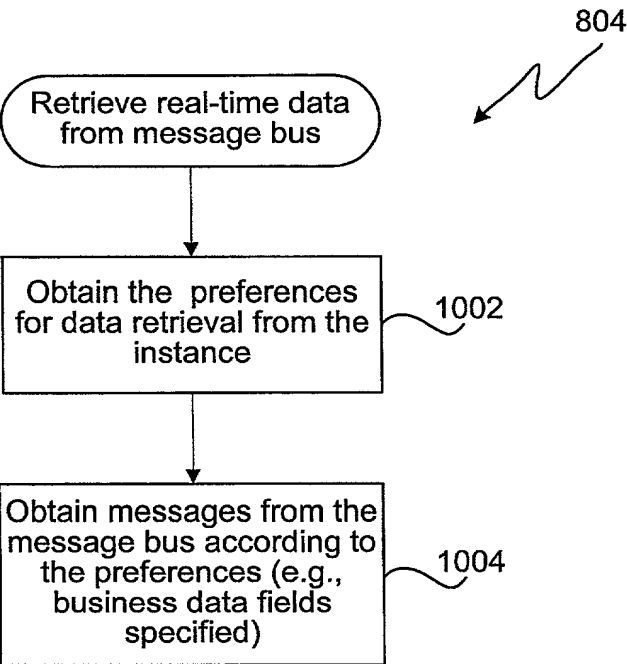
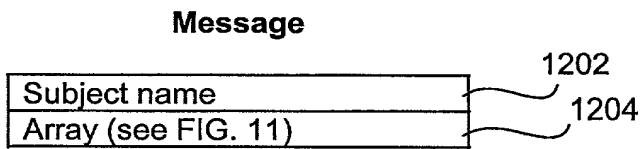
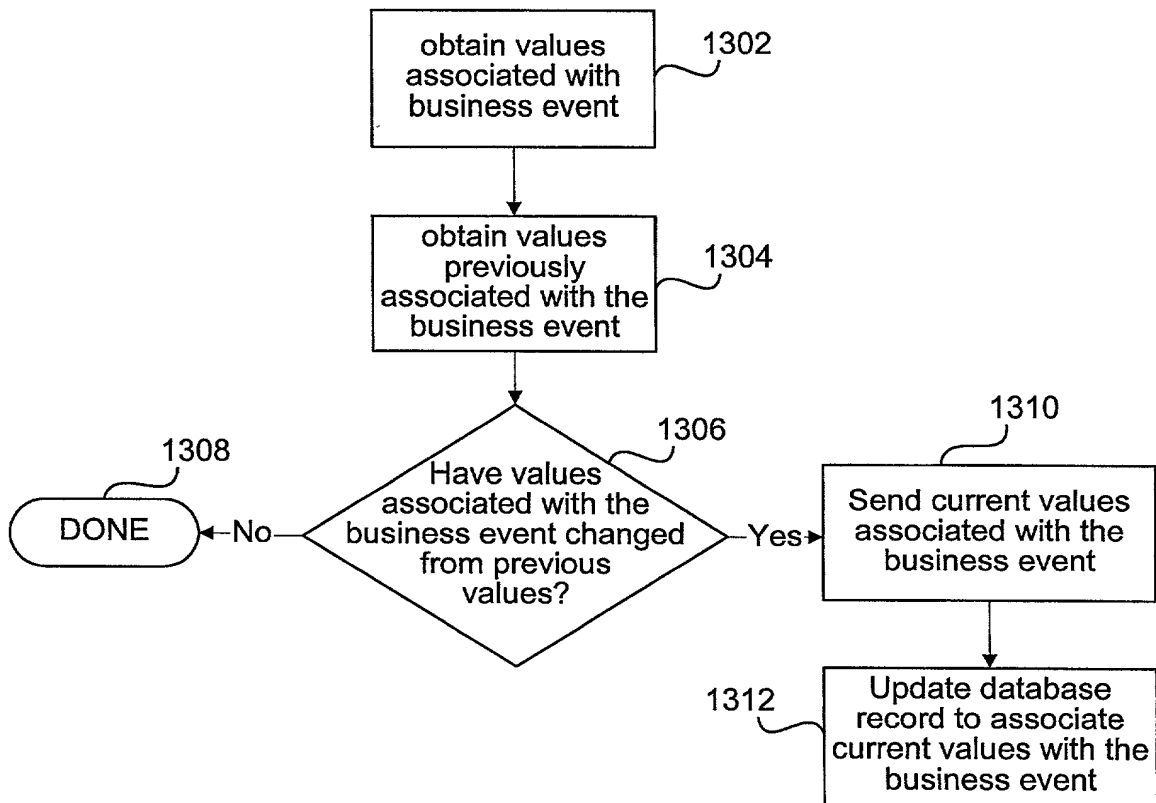


FIG. 10

1102				
Attribute name	Data type	Attribute value	Attribute #	Metric value flag
Customer	String	"SHOES_INC"	1	
Order No.	Integer	42859	2	
Ship date	String	"01/04/01"		
SKU1	Integer	000195		
Number of orders – SKU1	Integer	4		
Inventory level for SKU1	Integer	97		1
SKU2	Integer	000228		
Number of orders – SKU2	Integer	16		
Inventory level for SKU2	Integer	31		2

FIG. 11

**FIG. 12****FIG. 13**

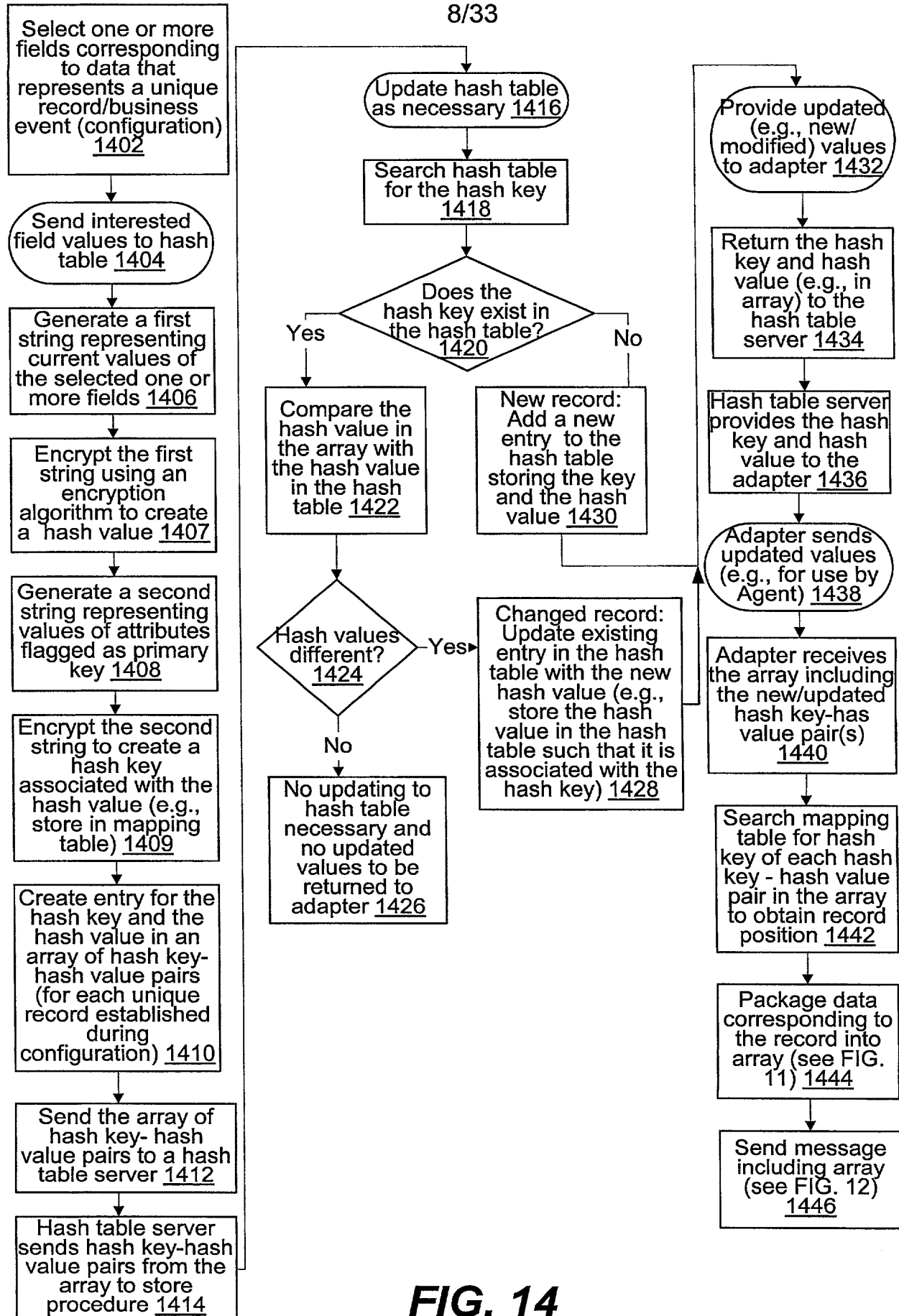


FIG. 14



1502		1504	
Hash key		Hash value	
Key 1		String 1	
Key 2		String 2	

FIG. 15

1602 Mapping Table		1604
Hash key	Original record position (e.g., pointer)	

FIG. 16

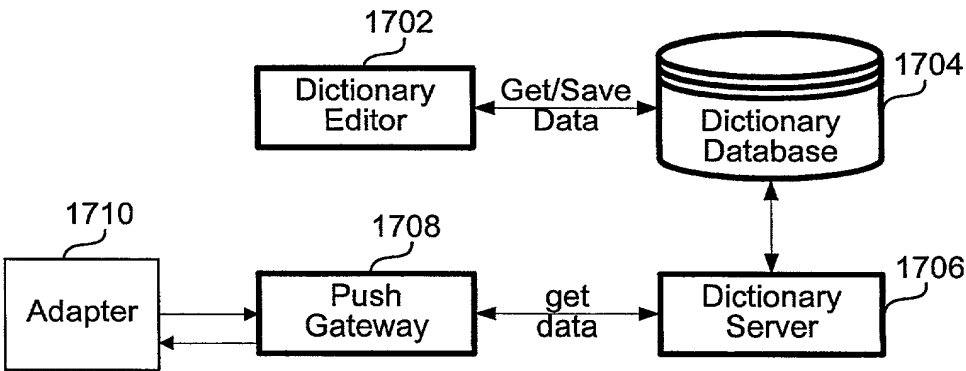
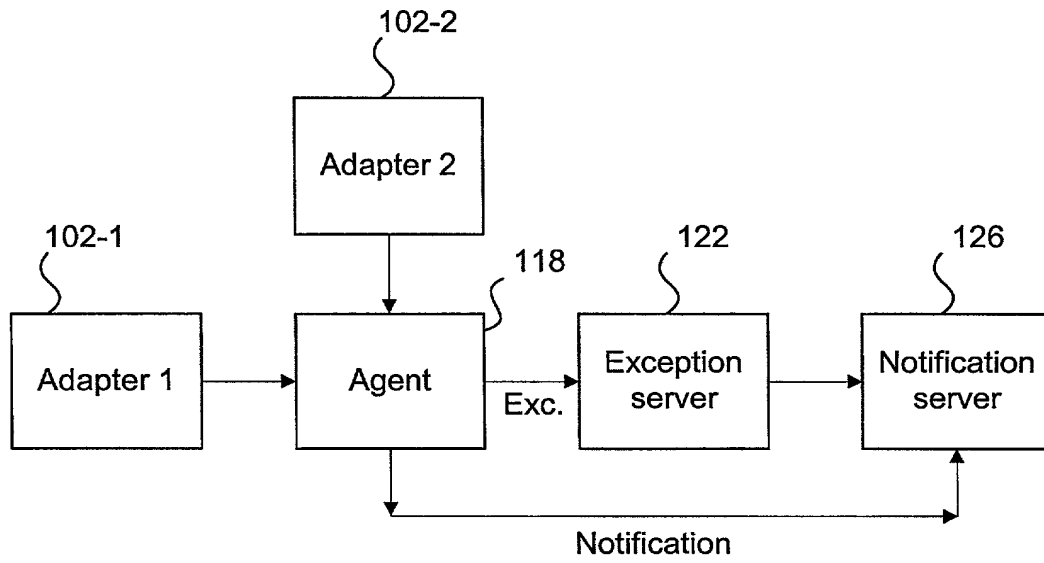


FIG. 17

**FIG. 18**

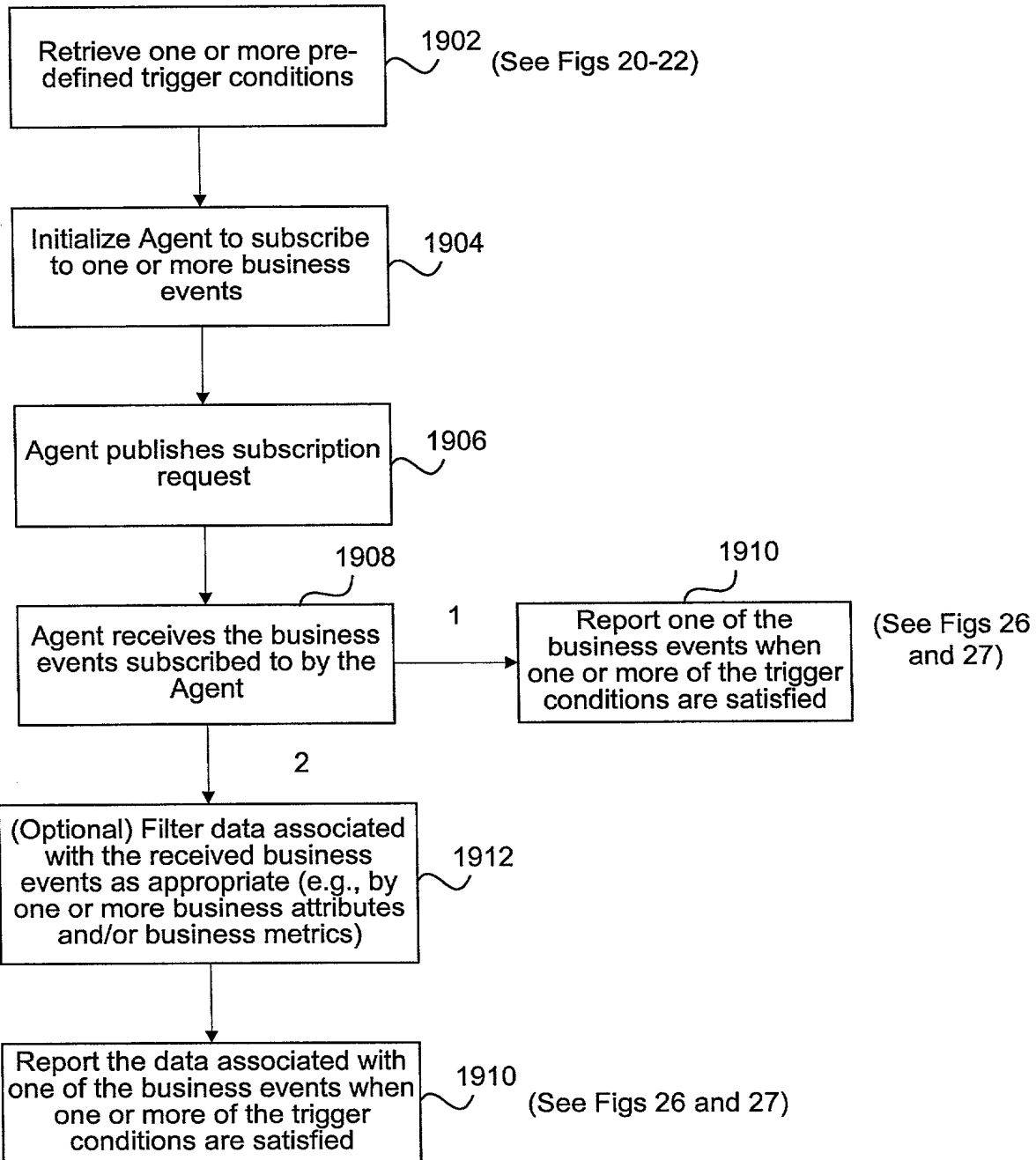


FIG. 19

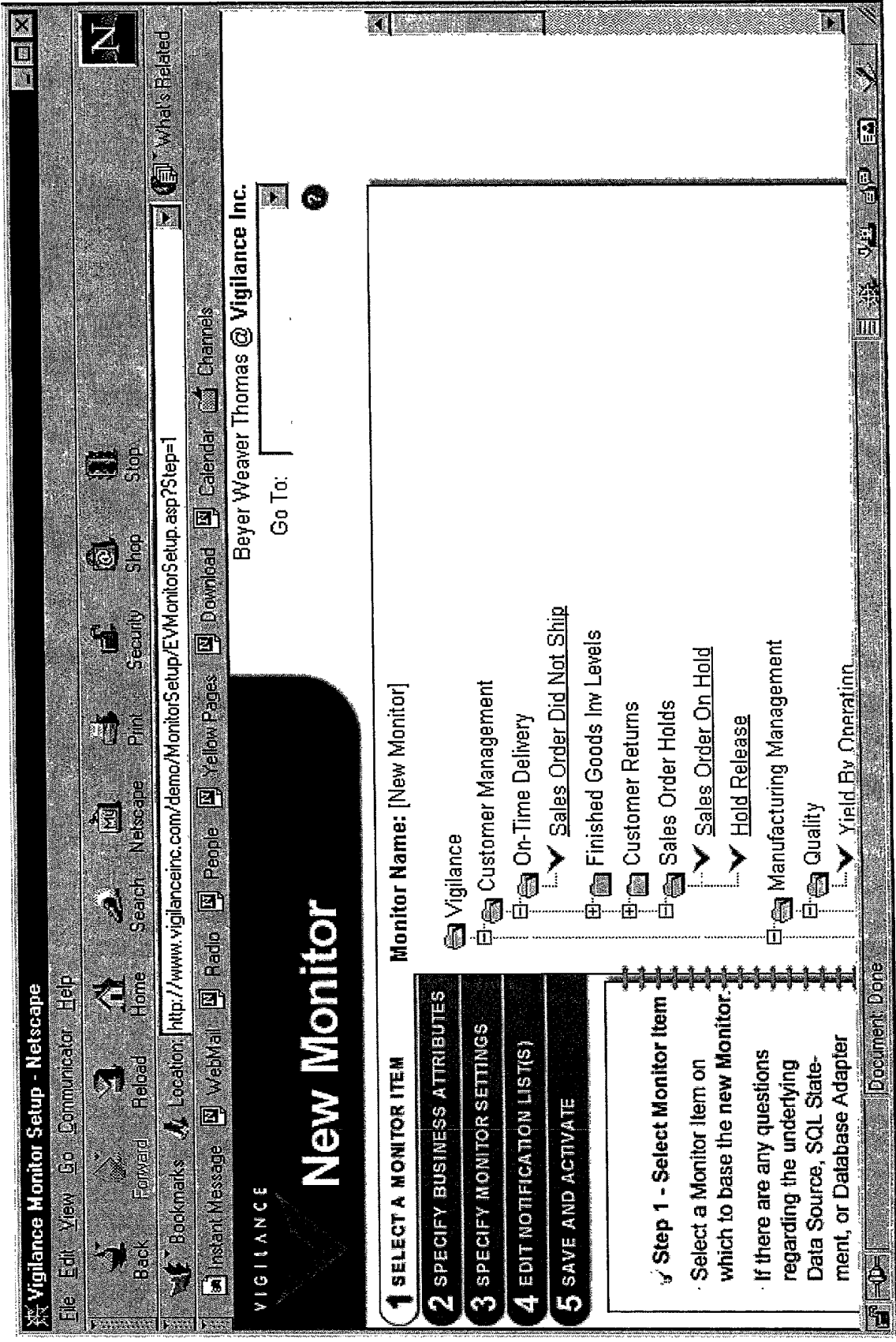


FIG. 20

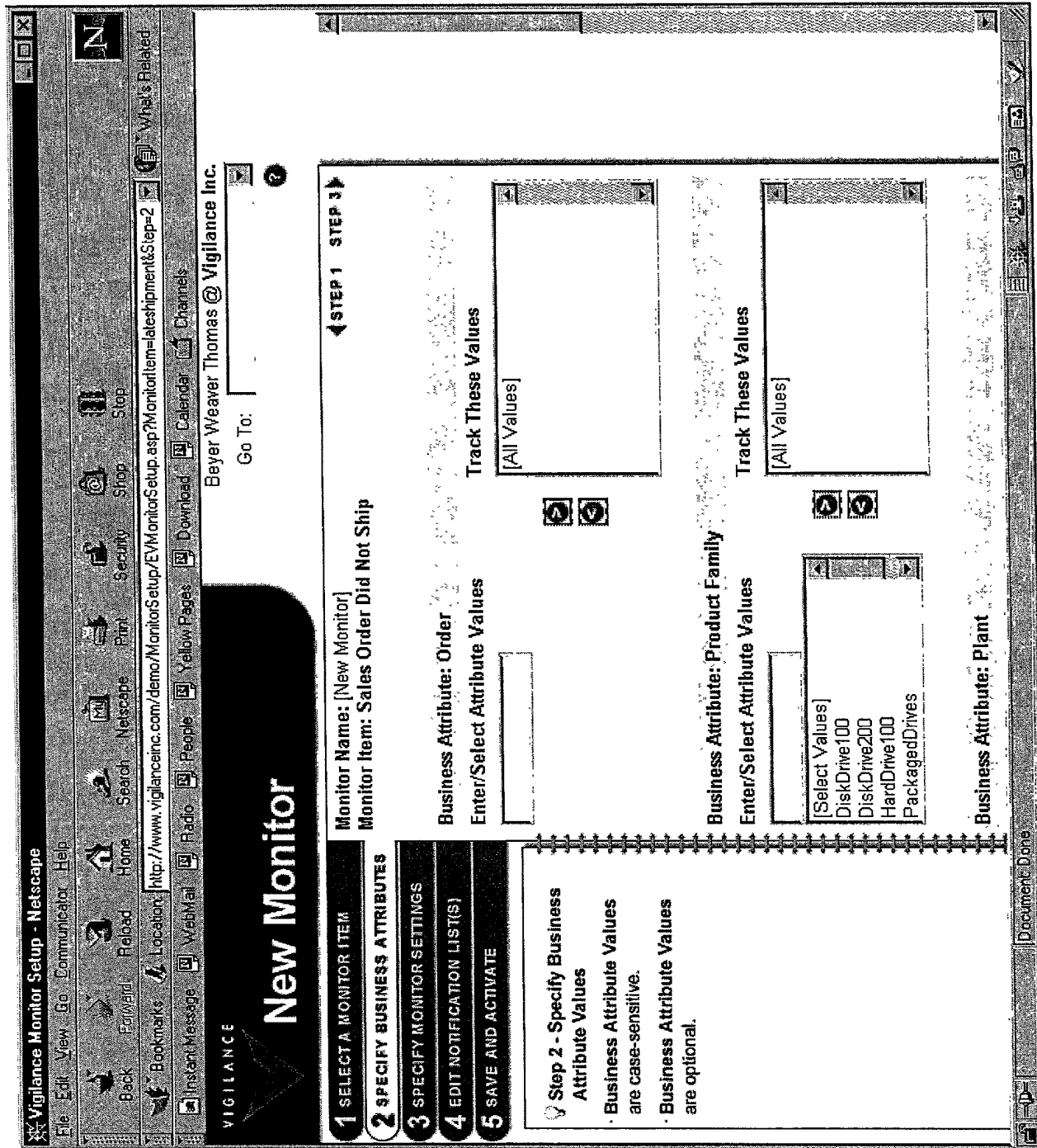
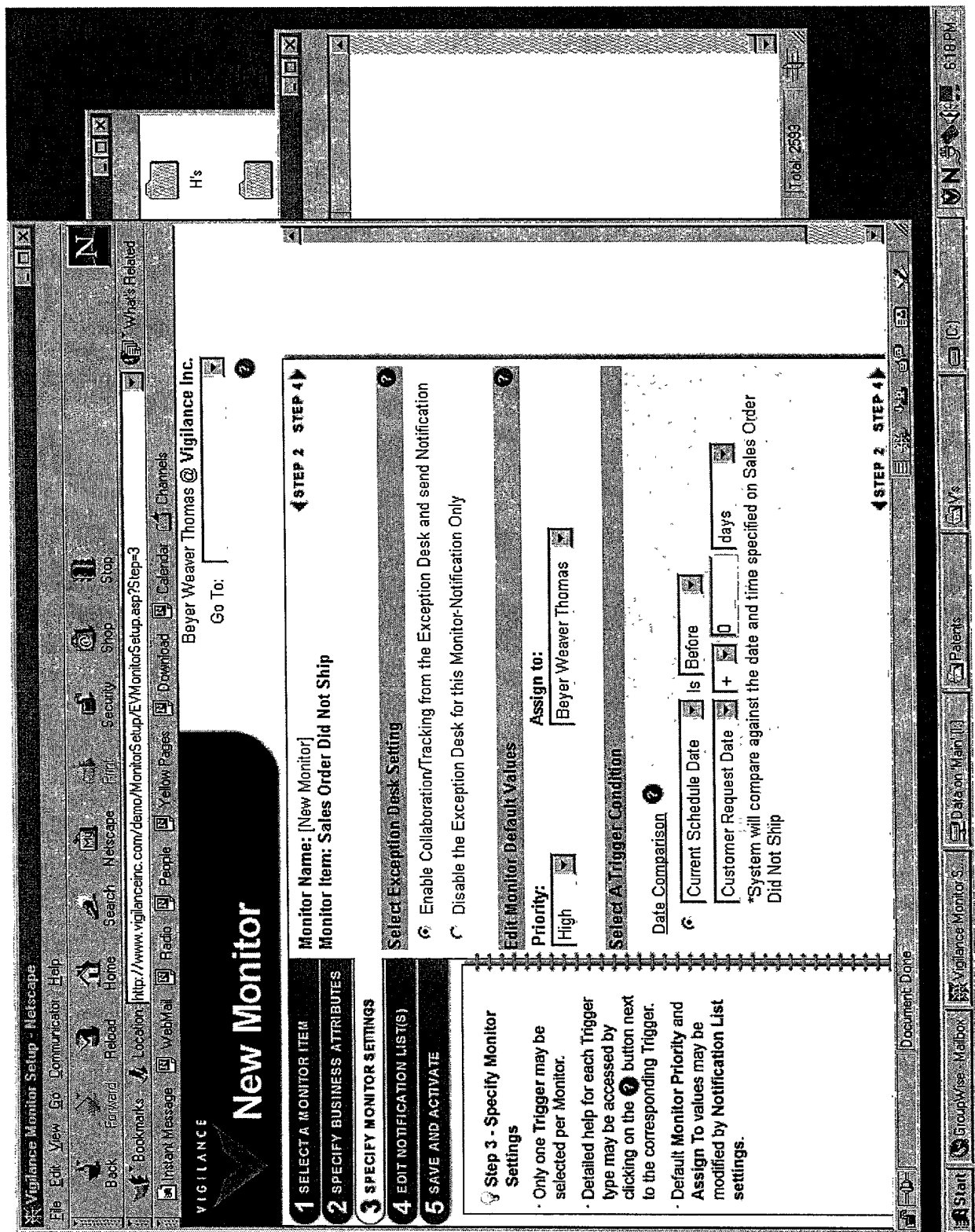


FIG. 21



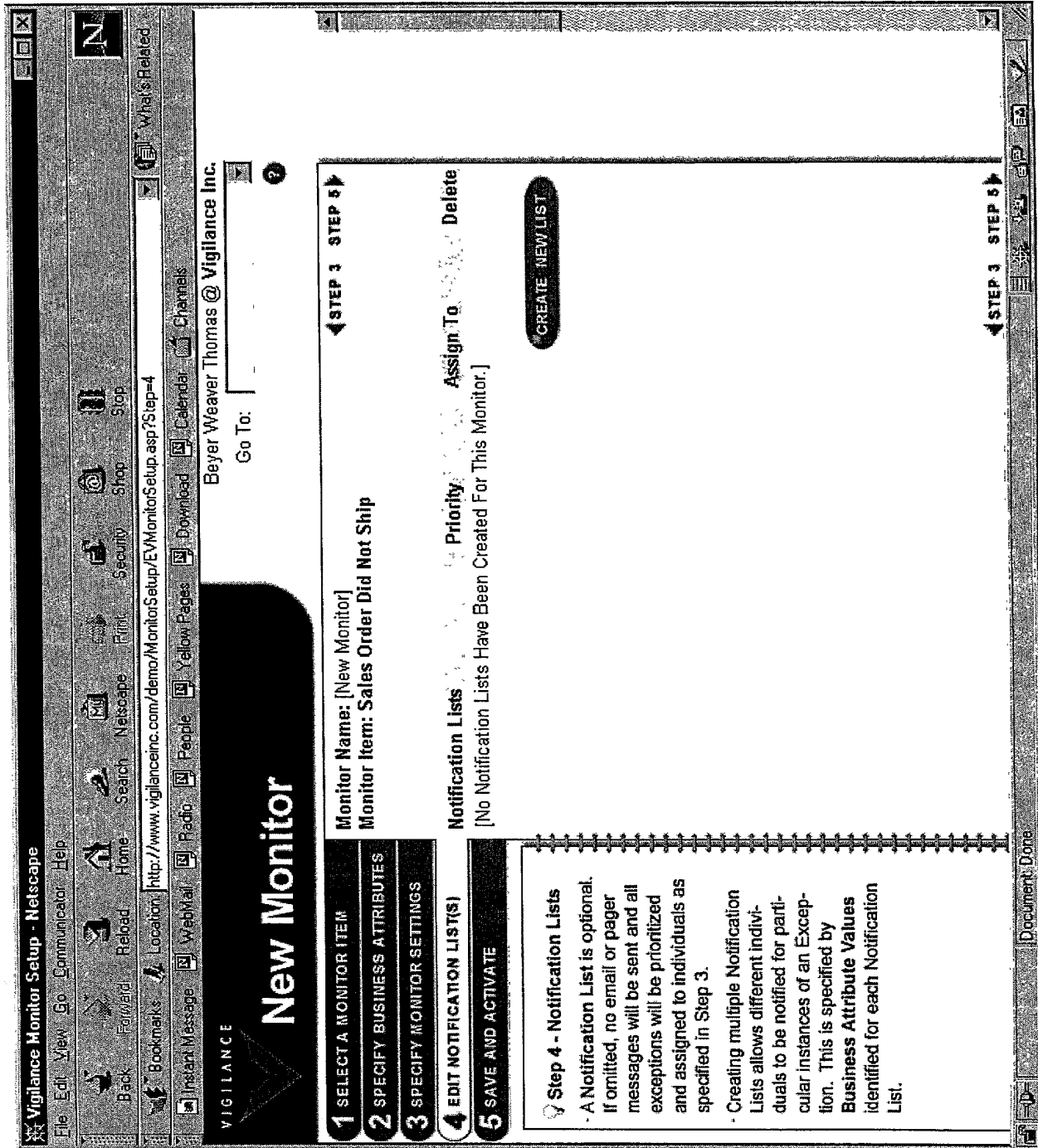


FIG. 23

Vigilance Monitor Setup - Netscape

File Edit View Go Communicator Help

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Bookmarks Location: http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?Step=6

Instant Message WebMail Radio People Yellow Pages Download Calendar Channels

What's Related

Beyer Weaver Thomas @ Vigilance Inc.

Go To: ?

VIGILANCE

New Monitor

1 SELECT A MONITOR ITEM

2 SPECIFY BUSINESS ATTRIBUTES

3 SPECIFY MONITOR SETTINGS

4 EDIT A NOTIFICATION LIST

5 SAVE AND ACTIVATE

Monitor Name: [New Monitor]

Monitor Item: Sales Order Did Not Ship

List Name: [New List]

FINISH LIST

Select Notification Method

☒ E-Mail ☐ Alphanumeric pager ☐ Numeric pager

☐ Disable Notification Grouping for selected users.\*

Select Users

Users

Alexander Jeffers

Amie Wang

Andy Sawran

Anessa Katz

Beyer Weaver Thomas

Bill Bailey

Bill Gilster

Bob Durose

Brian Clausen

Notification Recipients

Beyer Weaver Thomas(E)

Select Notification Time

☒ At All Times or

☐ From 9 : 00 AM to 5 : 00 PM

Select Notification Days

Step 4 - Notification Lists

A Notification List is optional. If omitted, no email or pager messages will be sent and all exceptions will be prioritized and assigned to individuals as specified in Step 3.

Creating multiple Notification Lists allows different individuals to be notified for particular instances of an Exception. This is specified by Business Attribute Values identified for each Notification List.

Document Done

FIG. 24A



Vigilance Monitor Setup - Netscape

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Bookmarks Location: <http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?Step=6>

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What's Related

New

Bayer Weaver Thomas @ Vigilance Inc.

Go To: ?

VIGILANCE

New Monitor

Select Notification Days

☒ Everyday or

☐ M, ☐ Tu, ☐ W, ☐ Th, ☐ F, ☐ Sa, ☐ Su

Select Notification Delay

☒ Notify immediately, no delay.

☐ Notify after  days

☐ Notify when Exception Status is

Field-Based Notification (Based on Email Address or Alias)

☐ Use Field-Based Notification

☐ [Select One Monitor Item Attribute]

☐ Enable Safety Net [Select One User]

Notification Method:

☐ E-Mail ☐ Alphanumeric Pagers ☐ Numeric Pagers

Notify These Recipients For

☐ All exceptions of this monitor

☒ Specific exceptions of this monitor (By Business Attributes)

Document Done

FIG. 24B

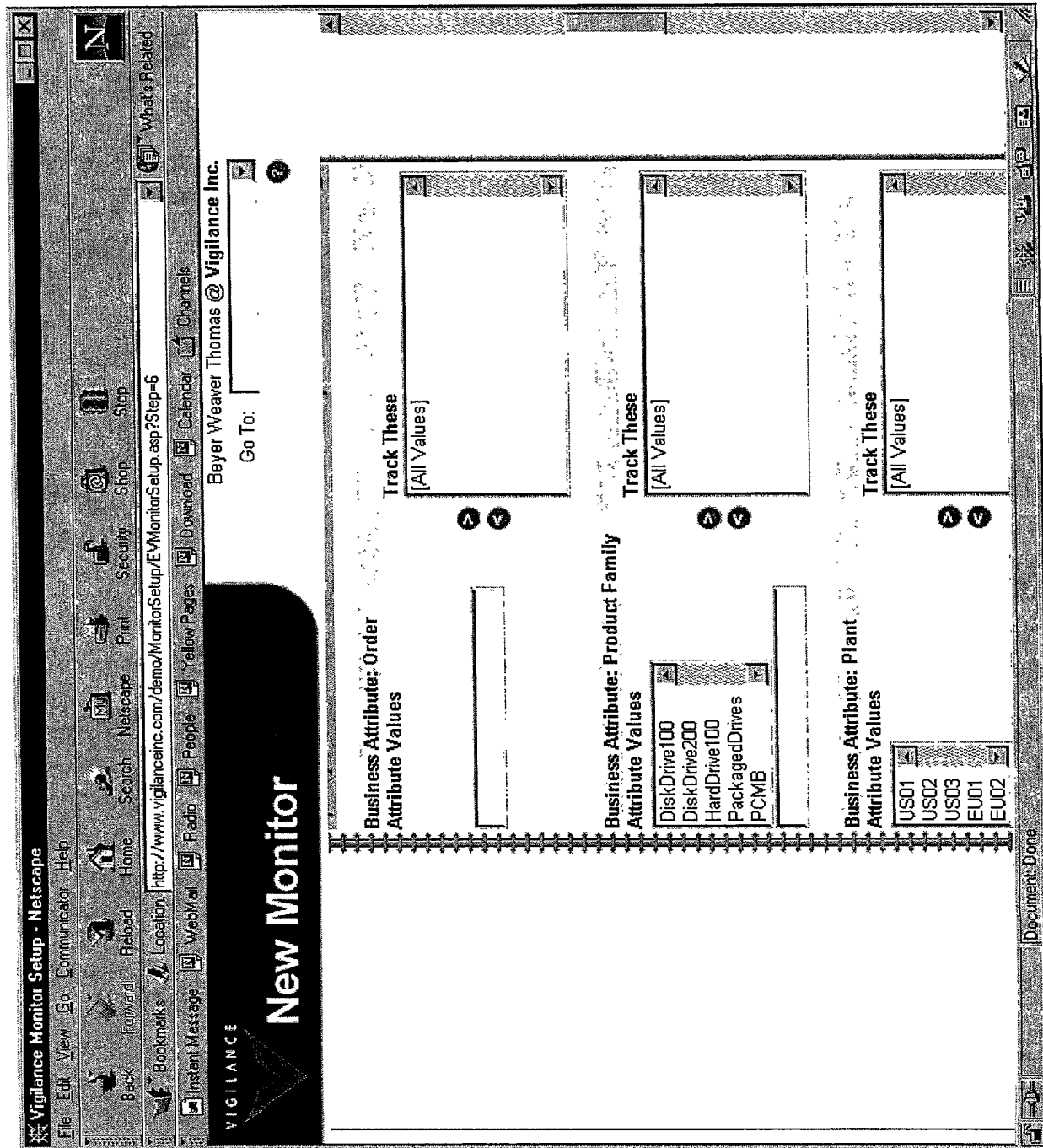


FIG. 24C

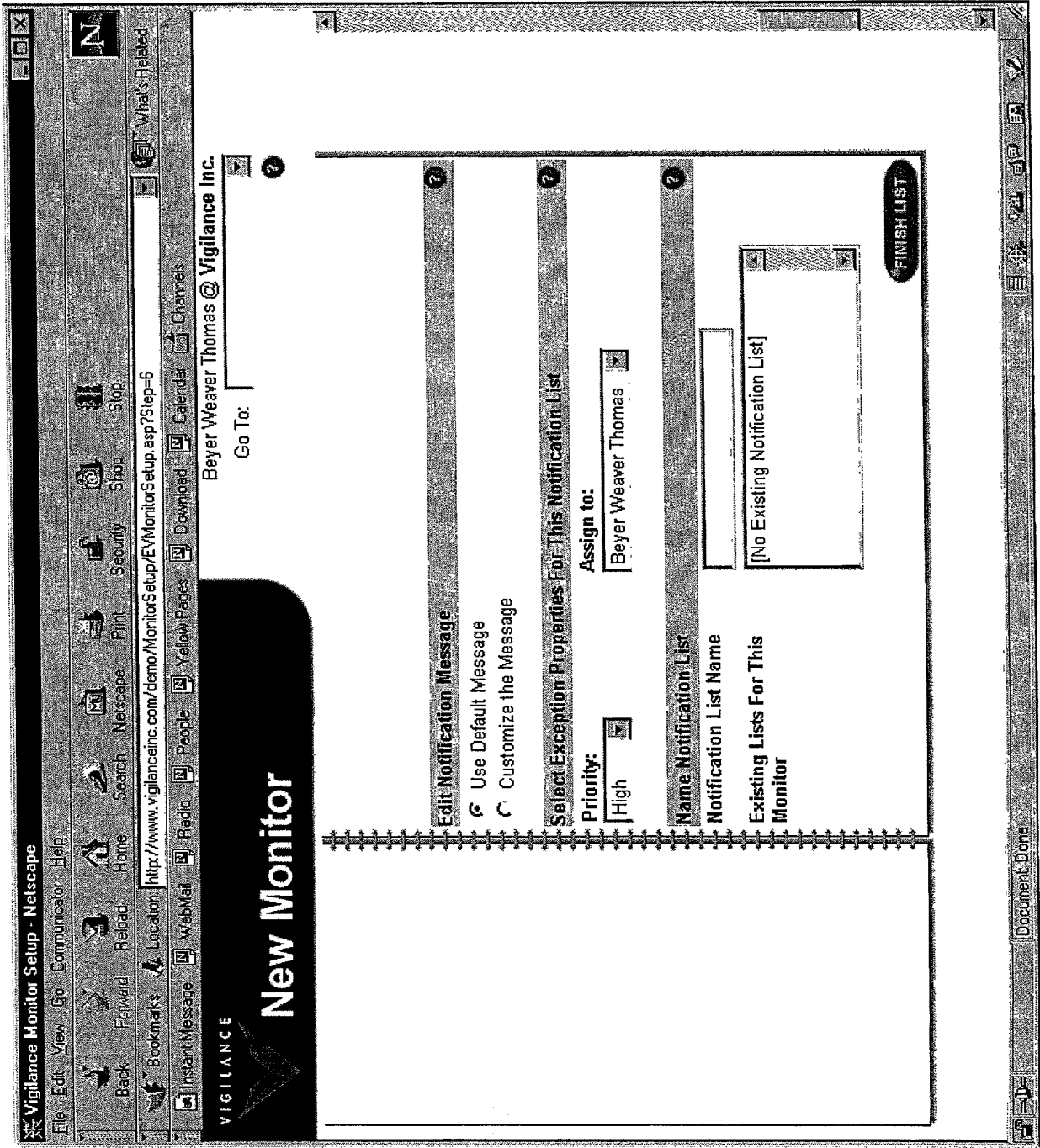


FIG. 24D

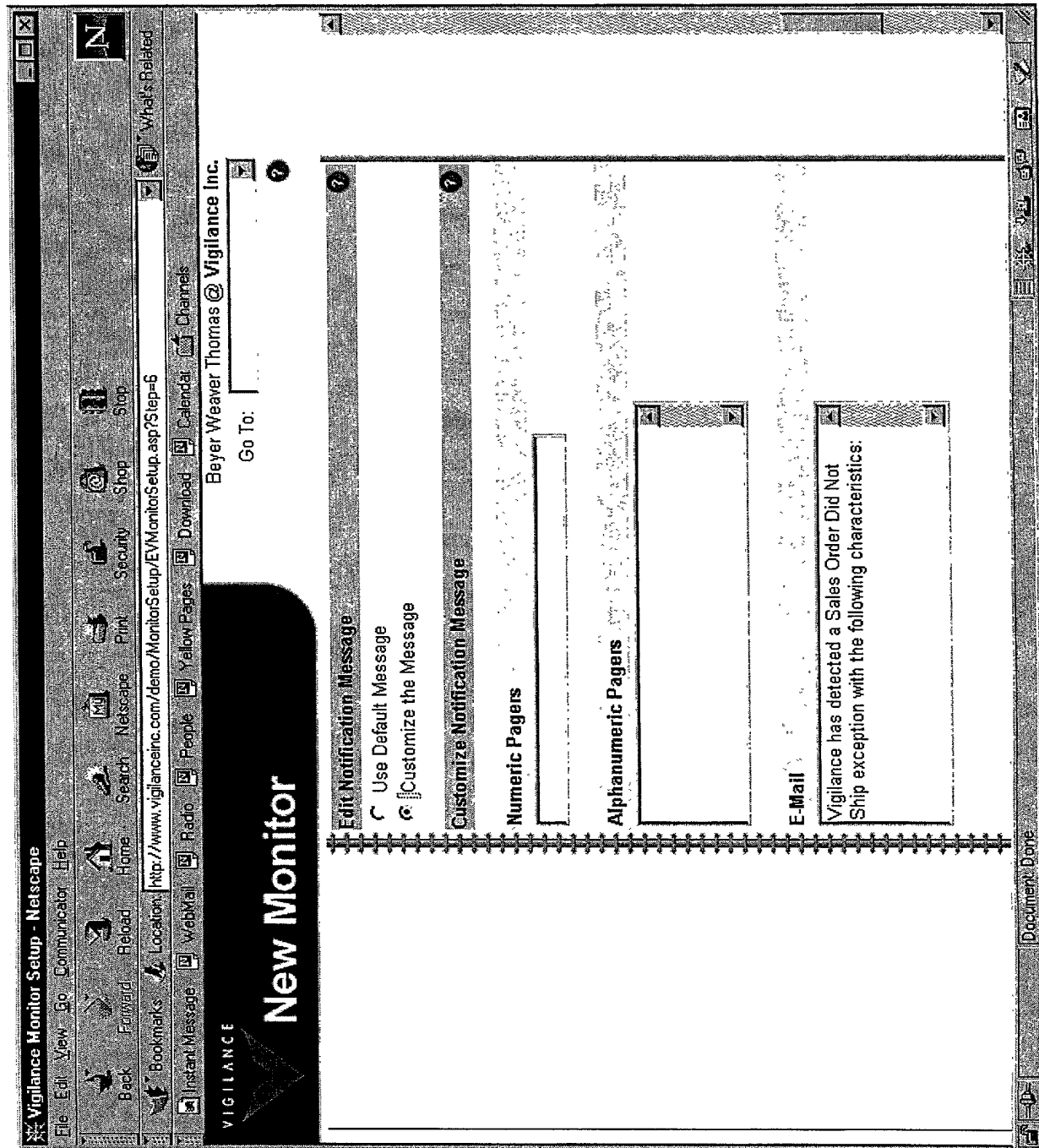


FIG. 24E

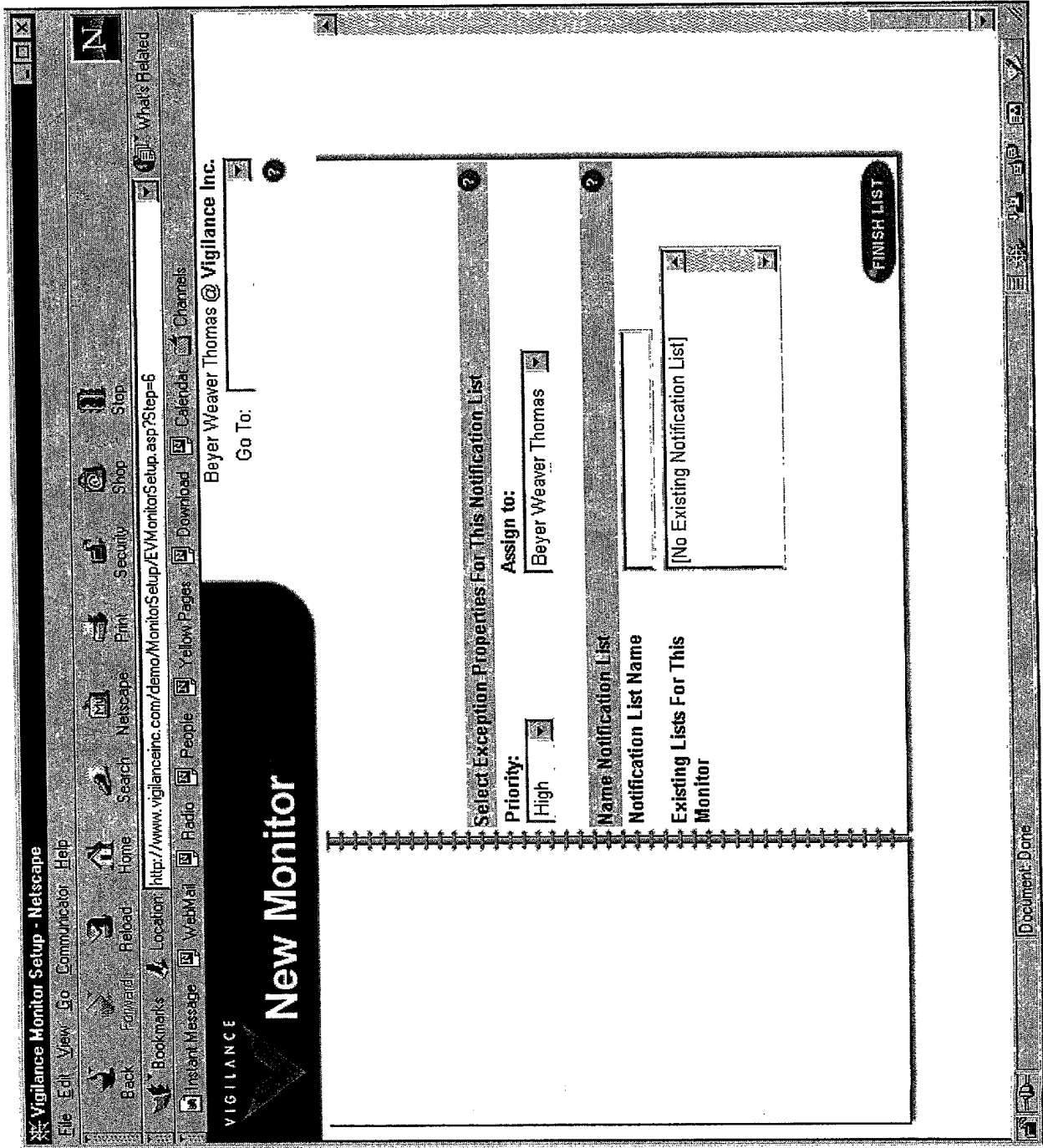


FIG. 24F

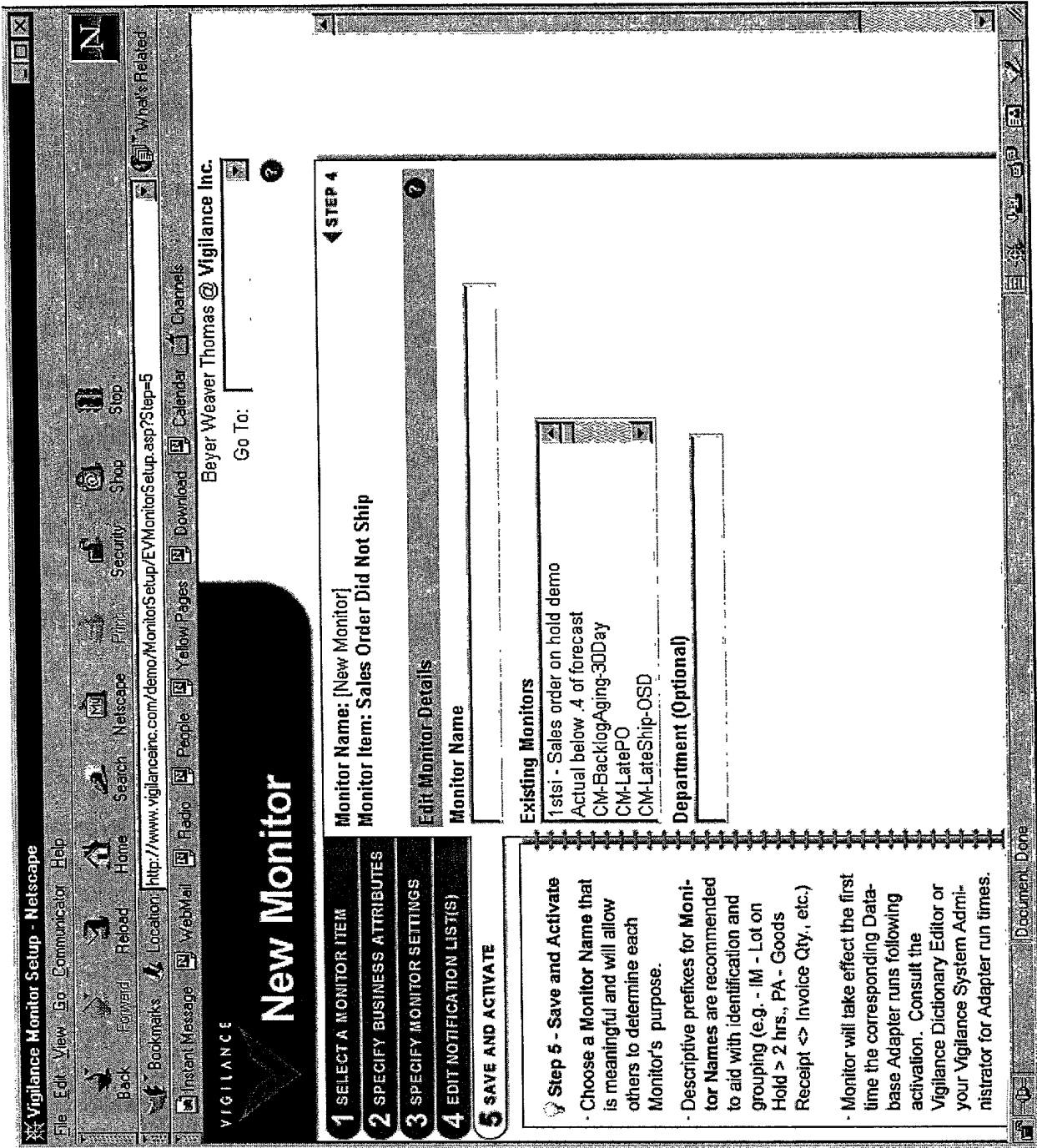
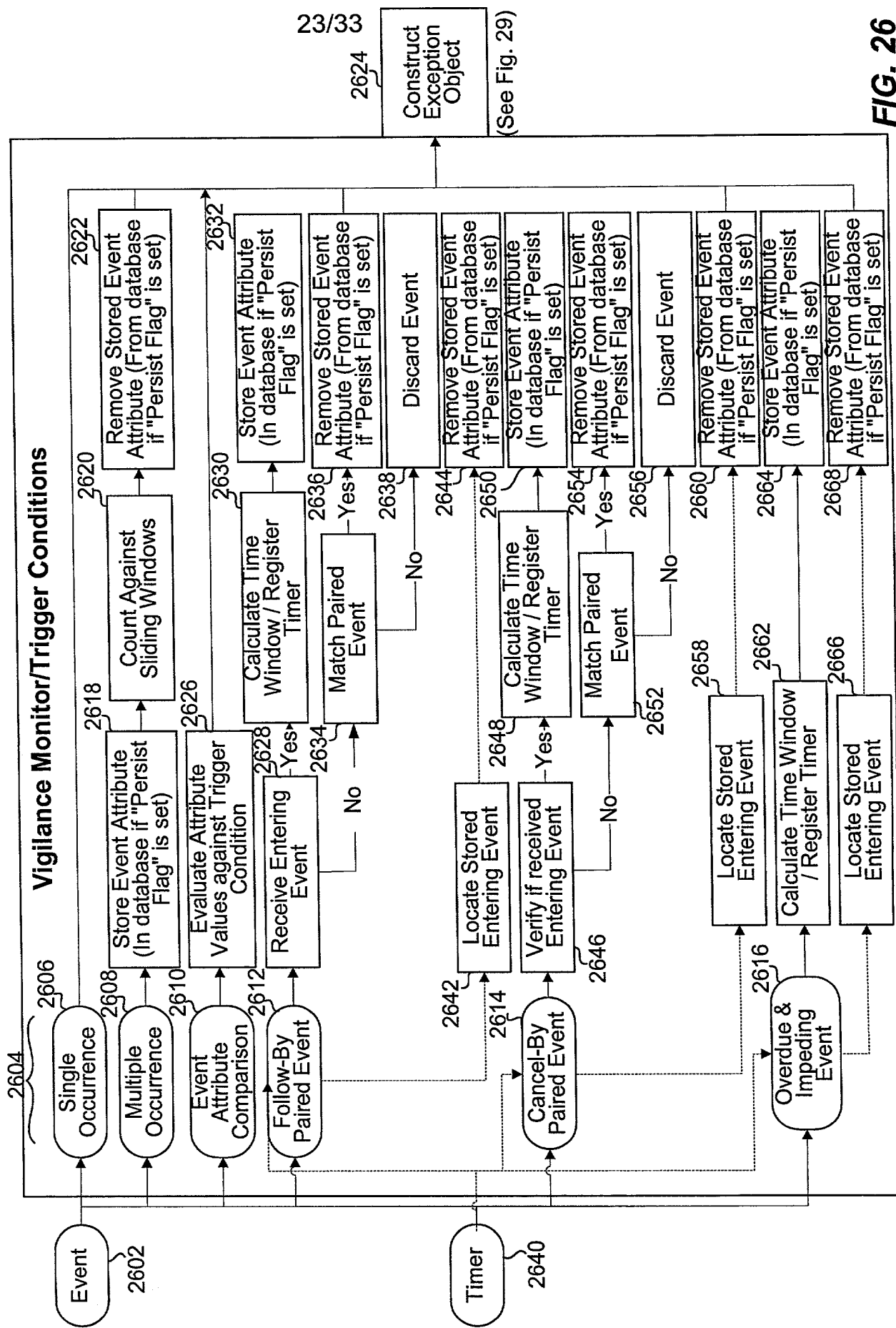
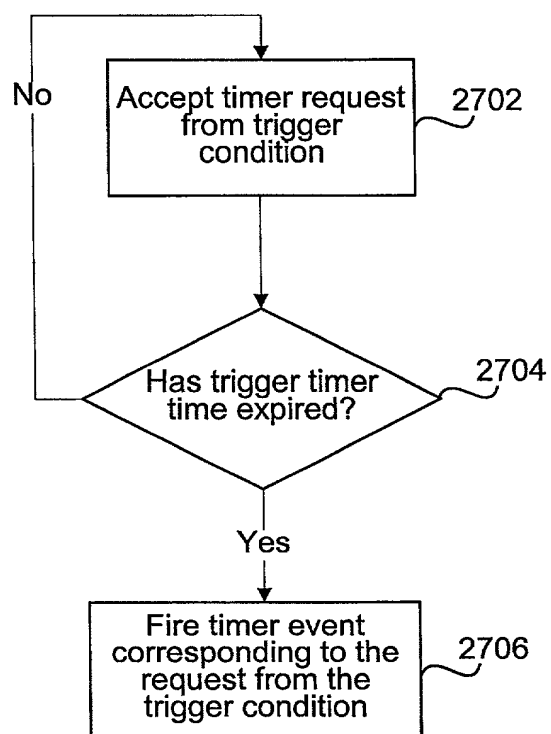


FIG. 25



**FIG. 27**



## Monitor object

Monitor Name 2802
Monitor Author 2804
Condition 2806
One or more attributes 2808 (e.g., including one or more values)
Notification 2810
Assignment 2812

**FIG. 28**

## Exception object

Exception identifier 2902	Exception description 2904	Event identifier 2906
Trigger condition 2908	Trigger type 2910	One or more attributes (e.g., business metrics) 2912
One or more attribute values 2914	Monitor name 2916	Monitor item 2918
Notification/exception 2920	Assign to 2922	Priority 2924
Detection time 2926	Analysis 2928	Analysis author 2930

**FIG. 29**

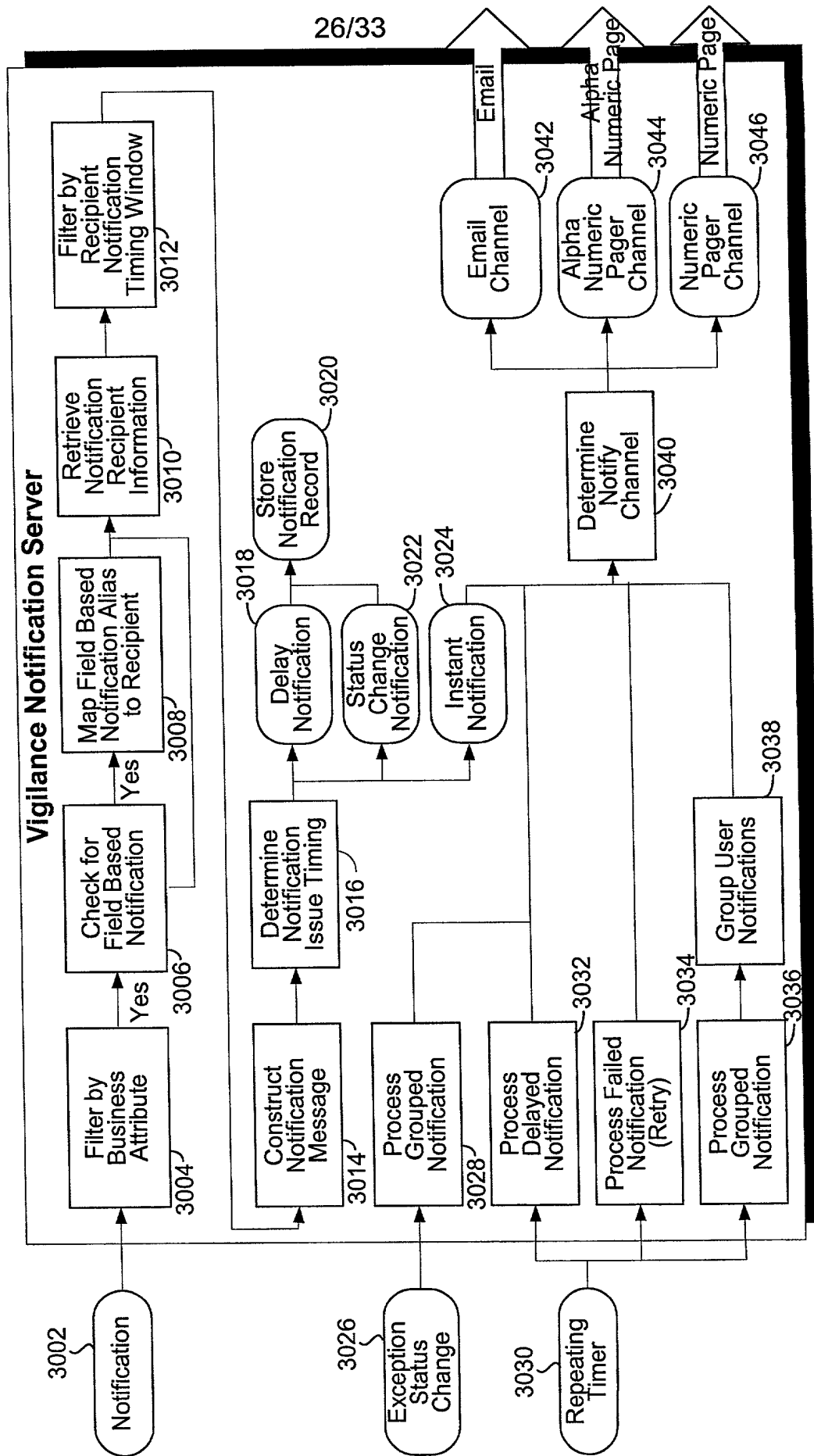
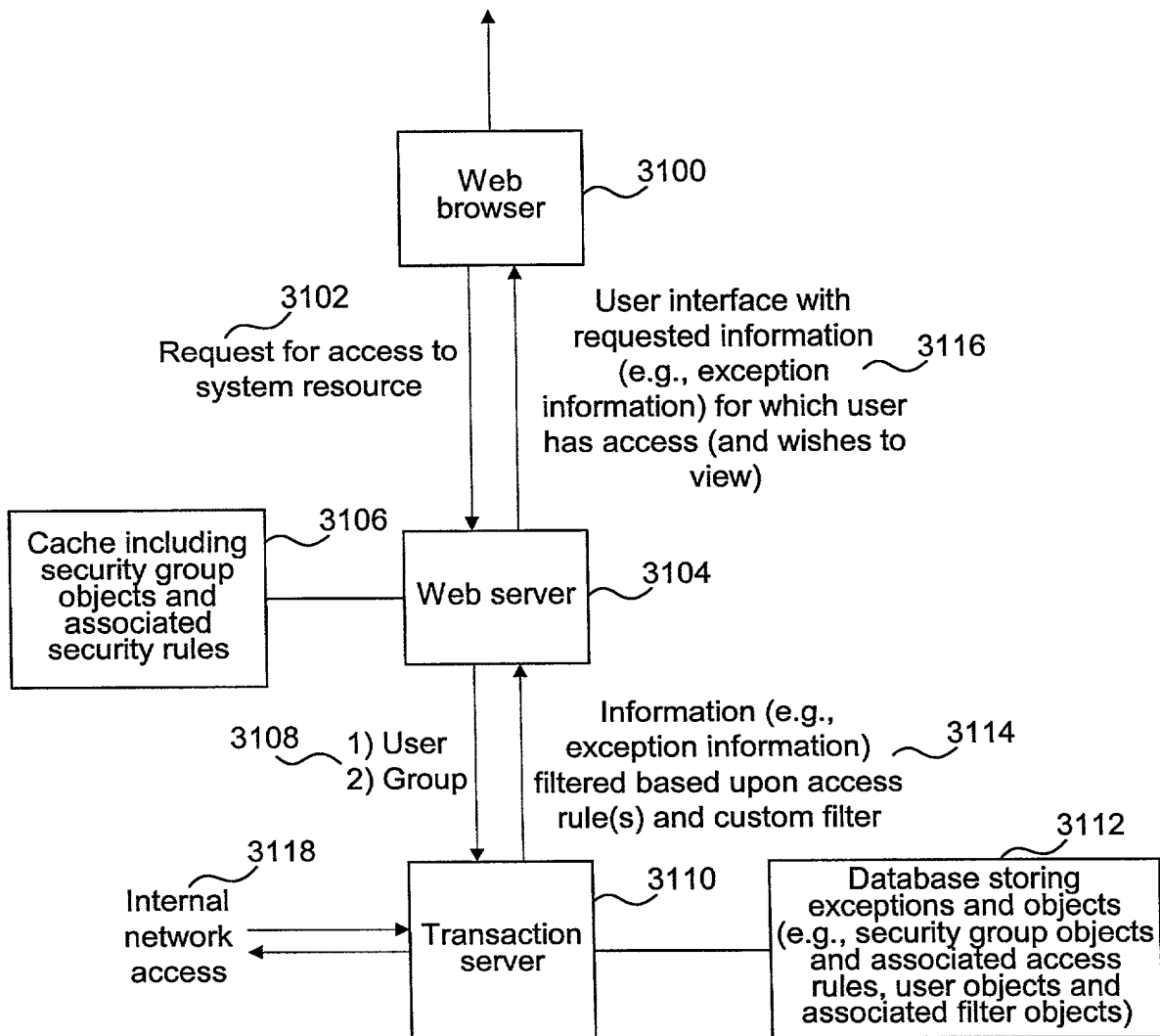


FIG. 30

**FIG. 31**

3202

User Object	
User: Peiwei	Company: Vigilance ~ 3204
	Security group: A ~ 3206
	One or more attributes and associated values – RULE 13 ~ 3208
	One or more filter objects – (e.g., attribute settings) indicating information that user wishes to view ~ 3210

FIG. 32

Security group object(s): Groups and associated list of rules  
indicating read/write access to exceptions/portions of exceptions

Group1: Security group A	3212	Read access for exceptions notified to themselves ~ 3214
Group2: Security group B	3216	1) Read/write access for exceptions created by monitors authored by themselves; 2) Read access for exceptions with analysis authored by someone in their company ~ 3218

FIG. 33

Security Settings Page - Netscape		What's Related	
File Edit View Go Communicator Help		Back Forward Reload Home Search Netscape Print Security Shop Stop	
Bookmarks Location file:///C:/WINDOWS/TEMP/IEVGroupRights.htm		Instant Message WebMail Radio People Yellow Pages Download Calendar Channels	
#	Security Item	Read	Write
0	All existing exceptions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1	Exceptions assigned to themselves	<input type="checkbox"/>	<input type="checkbox"/>
2	Exceptions assigned to someone in their company	<input type="checkbox"/>	<input type="checkbox"/>
3	Exceptions assigned to someone in their security group	<input type="checkbox"/>	<input type="checkbox"/>
4	Exceptions notified to themselves	<input type="checkbox"/>	<input type="checkbox"/>
5	Exceptions notified to someone in their company	<input type="checkbox"/>	<input type="checkbox"/>
6	Exceptions notified to someone in their security group	<input type="checkbox"/>	<input type="checkbox"/>
7	Exceptions created by monitors authorized by themselves	<input type="checkbox"/>	<input type="checkbox"/>
8	Exceptions created by monitors authorized by someone in their company	<input type="checkbox"/>	<input type="checkbox"/>
9	Exceptions created by monitors authorized by someone in their security group	<input type="checkbox"/>	<input type="checkbox"/>
10	Exceptions with analysis authorized by themselves	<input type="checkbox"/>	<input type="checkbox"/>
11	Exceptions with analysis authorized by someone in their company	<input type="checkbox"/>	<input type="checkbox"/>
12	Exceptions with analysis authorized by someone in their security group	<input type="checkbox"/>	<input type="checkbox"/>
13	Exceptions where business attribute and value match the settings in their user profile	<input type="checkbox"/>	<input type="checkbox"/>
14	Exception priority (for exceptions they can access by a rule)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15	Exception assigned to (for exceptions they can access by a rule)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16	Exception status (for exceptions they can access by a rule)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17	Exception estimated closure date (for exceptions they can access by a rule)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18	Exception notification list (for exceptions they can access by a rule); write access means they can forward exceptions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
19	Exception analysis that was authorized by themselves (for exceptions they can access by a rule)	<input type="checkbox"/>	<input type="checkbox"/>
20	Exception analysis that was authorized by someone in their company (for exceptions they can access by a rule)	<input type="checkbox"/>	<input type="checkbox"/>

FIG. 34A

Security Settings Page - Netscape

File Edit View Go Communication Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Bookmarks Location: file:///C:/JAWINDOWS/TEMP/EVGroupRights.htm

Instant Message WebMail Radio People Yellow Pages Download Calendar Channels

What's Related

19	Exception analysis that was authored by themselves (for exceptions they can access by a rule)	<input type="checkbox"/>	<input type="checkbox"/>
20	Exception analysis that was authored by someone in their company (for exceptions they can access by a rule)	<input type="checkbox"/>	<input type="checkbox"/>
21	Exception analysis that was authored by someone in their security group (for exceptions they can access by a rule)	<input type="checkbox"/>	<input type="checkbox"/>
22	All exception analysis (for exceptions they can access by a rule)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
23	Can record new analysis (for exceptions they can access by a rule) (write only)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24	Exception monitor item and trigger condition (for exceptions they can access by a rule) (read only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25	Exception filter values from monitor setup (for exceptions they can access by a rule) (read only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26	Exception actual values (for exceptions they can access by a rule) (read only)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
27	All existing monitors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
28	Can create new monitors (write only)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29	All existing users	<input type="checkbox"/>	<input type="checkbox"/>
30	Can create new users (write only)	<input type="checkbox"/>	<input type="checkbox"/>
31	All existing analysis codes	<input type="checkbox"/>	<input type="checkbox"/>
32	Can create new analysis codes (write only)	<input type="checkbox"/>	<input type="checkbox"/>
33	Can activate or deactivate existing monitors (write only)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
34	All existing security groups	<input type="checkbox"/>	<input type="checkbox"/>
35	Can create new security groups (write only)	<input type="checkbox"/>	<input type="checkbox"/>
36	Can access analytics page (write only)	<input type="checkbox"/>	<input type="checkbox"/>
37	Can access alias definition page	<input type="checkbox"/>	<input type="checkbox"/>

To save your changes to the security settings for this group

JavaScript:eng\_typejavascript into location details

FIG. 34B

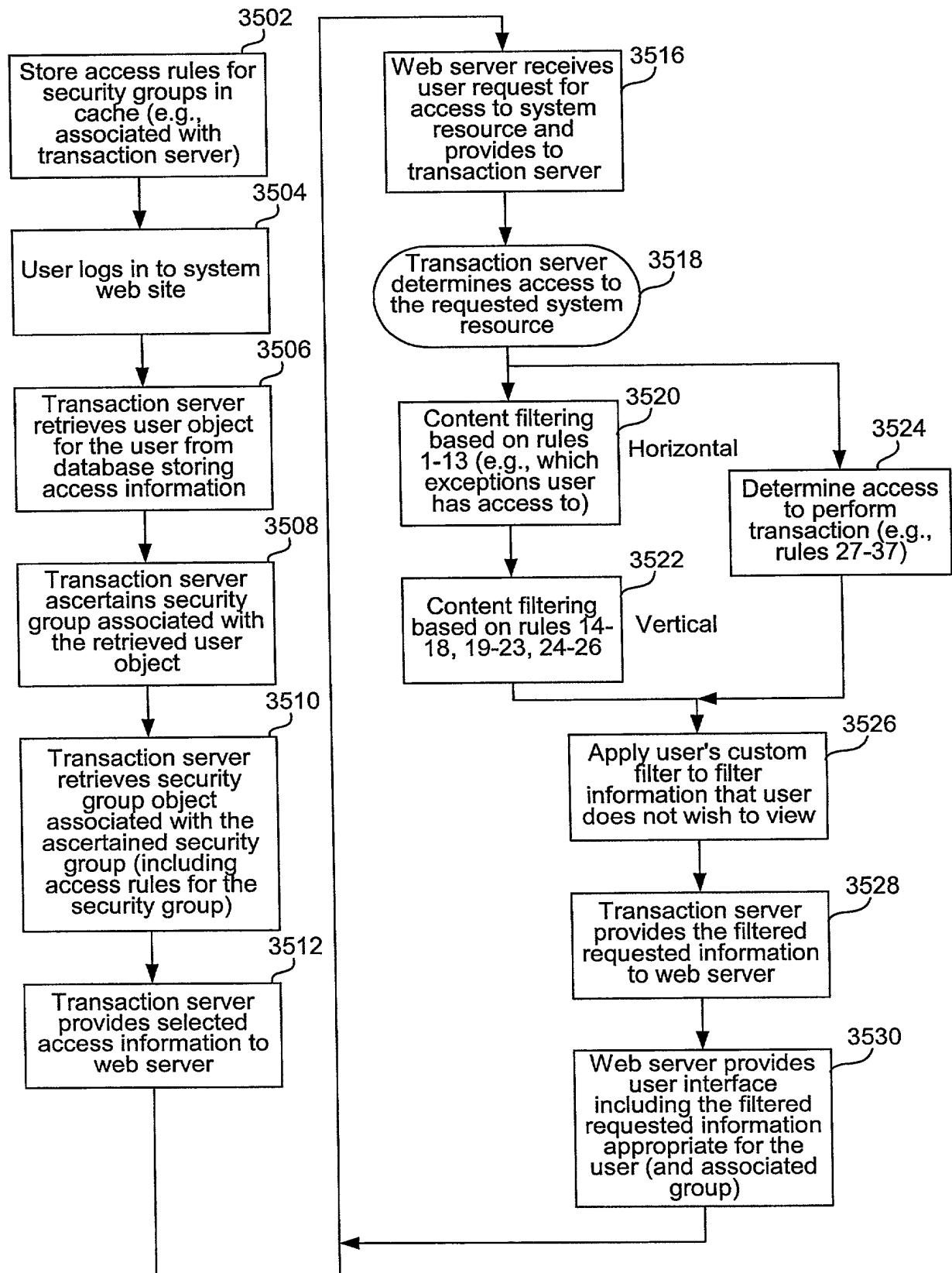


FIG. 35

Vigilance List - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print

Address http://65.200.85.2/demo/MPList/EVList.asp?Type=Exceptions

VIGILANCE

Exception Desk

Beyer Weaver Thomas @ Vigilance Inc.

Go To: OFF UPDATE MANY FILTER SORT ?

To view/change, enter ID:  GO OR

Click on description below:

Filtered and sorted by your most recent filter and sort settings.

Showing 1-50 of 145 | Next Page | Last

ID	Description	Detected At	Priority	Assigned To	Status	Closure On	Analysis Entries
144	Sales Order Did Not Ship by Line Creation Date + 30 day(s) for Order: 10002 - PC Int'l - 100DD4001	May 18, 2001 11:43 AM	Medium	John E. Schneider	Open	Not Set	3 May 19 2:43 PM
137	Sales Order Did Not Ship by Original Schedule Date for Order: 10030 - Compaq - 200DD2001	May 18, 2001 9:43 AM	High	Chuck Lindsey	Open	May 20, 2001	1 May 18 2:31 PM
133	Supplier Delivery Not Received by Scheduled Delivery Date for PO: P900000105 - CreativDrive - 200SC3001	May 17, 2001 5:45 PM	High	Richard K. Yoon	Open	May 20, 2001	2 May 19 4:04 PM
125	Sales Order On Hold occurred for Order: 10005 - iBus - PKG1000	May 17, 2001 3:35 PM	Medium	Charlie Davis	Open	May 21, 2001	1 May 18 7:23 PM

http://65.200.85.2/demo/ExceptionDesk/EVEExceptionDetail.asp?Type=Exceptions&Sort=default&Filter=default

Internet



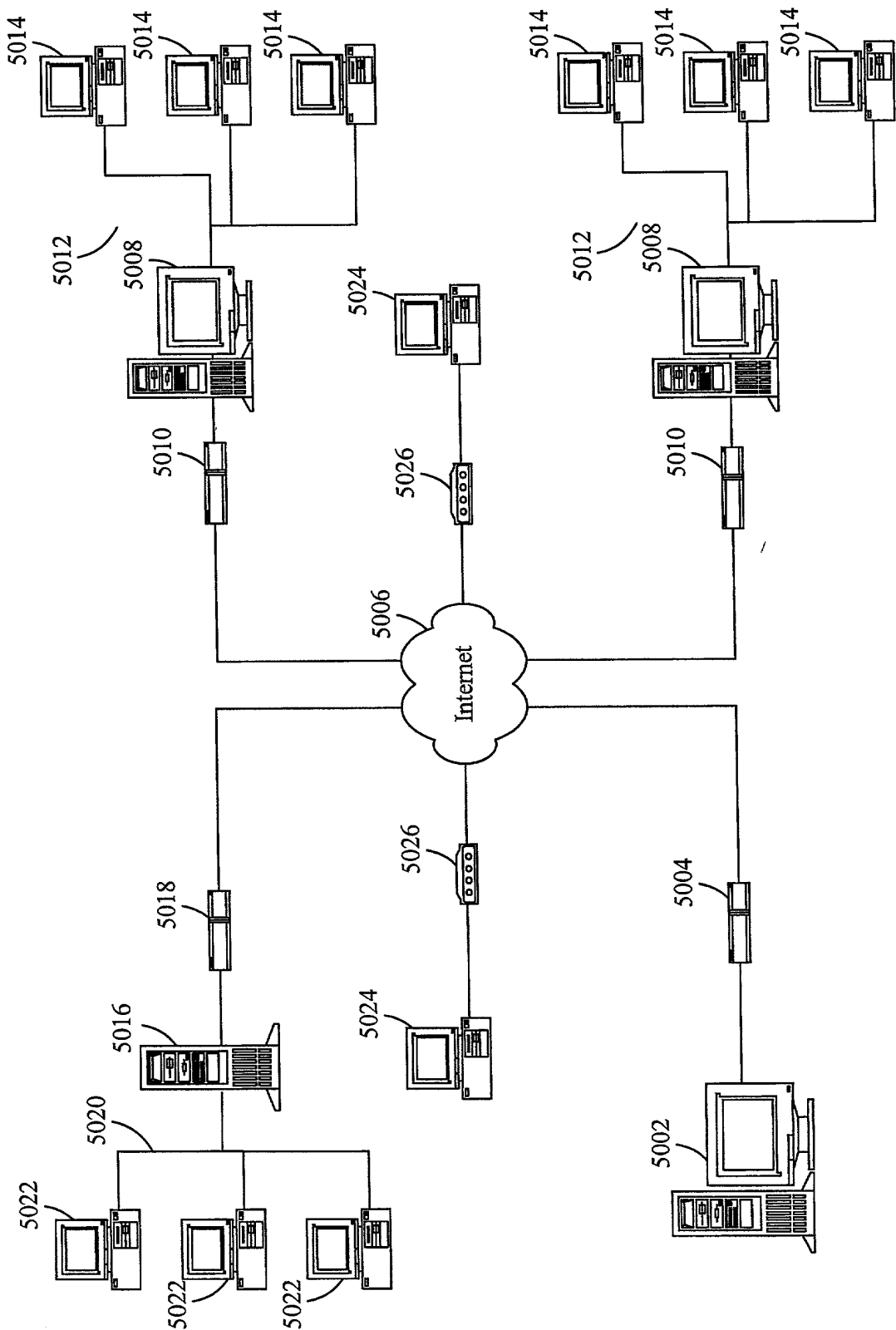


FIG. 37